In the Specification:

On page 6, after the first paragraph, please insert the following:

-- BRIEF DESCRIPTION OF THE DRAWINGS

These and other features of this invention will be more readily understood from the following detailed description of the various aspects of the invention taken in conjunction with the accompanying drawings in which:

FIG. 1 depicts a system depicts an excitation angle controller in accordance with present invention.

FIG. 2 depicts a linear inductance profile of an SRM in accordance with present invention.

FIG. 3 depicts phase graphs of an SRM in accordance with present invention.

FIG. 4 depicts turn-off angle graphs for an SRM in accordance with present invention.

FIG. 5 depicts a three dimensional SRM performance graph in accordance with present invention.

FIG. 6 depicts three different curve fit graphs in accordance with present invention.

FIG. 7 depicts an angle controller in accordance with present invention.

FIG. 8 depicts controller specifications and parameters in accordance with present invention.

FIG. 9 depicts graphs showing the result of the angle control technique for 125A reference current and a varying speed profile.

FIG. 10 shows the simulation results of the implemented control technique at 2500 rpm where the reference current is changed from 25A to 140A at 0.3 s.

FIG. 11 shows a block diagram of an experimental setup.

FIG. 12 shows the variation in *Tavg/Iph*rms with turn-off angle at four operating points.

FIG. 13 shows the curve fit of the turn-off angles using the experimentally optimized data.

FIG. 14 shows the dependence of turn-off angle on speed and power using experimental data.

FIG. 15 shows the response of an experimental system where the speed was changed from 500 rpm to 2500 rpm with a 3Nm load.

FIG. 16 shows the motor phase currents at 500 rpm, 2500 rpm and during transients. --

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